Service Manual

PIONEER®
The Art of Entertainment

ORDER NO.
RRV1966

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-11

● Refer to the service manual RRV1911 for VSX-D507S/KUXJI.

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model	Power Requirement	Remarks
	VSX11		
KUXJI/CA	O	AC120V	

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T–ZZY MAY 1998 Printed in Japan

1. CONTRAST OF MISCELLANEOUS PARTS

NOTES :
- *Parts marked by " NSP " are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing,be sure to use parts of identical designation.*
- *Reference Nos. indicate the pages and Nos. in the service manual for the base model.*
- *Screw adjacent to ▼ mark on the product are used for disassembly.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex. 1 *When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).*

560 Ω → 56 × 10¹ → 561 ..... RD1/4PU 5 6 1 J

47k Ω → 47 × 10³ → 473 ..... RD1/4PU 4 7 3 J

0.5 Ω → R50 ..... RN2H R 5 0 K

1 Ω → 1R0 ..... RS1P 1 R 0 K

Ex. 2 *When there are 3 effective digits (such as in high precision metal film resistors).*

5.62k Ω → 562 × 10¹ → 5621 ..... RN1/4PC 5 6 2 1 F

■ CONTRAST TABLE

VSX-11/KUXJI/CA and VSX-D507S/KUXJI are constructed the same except for the following :

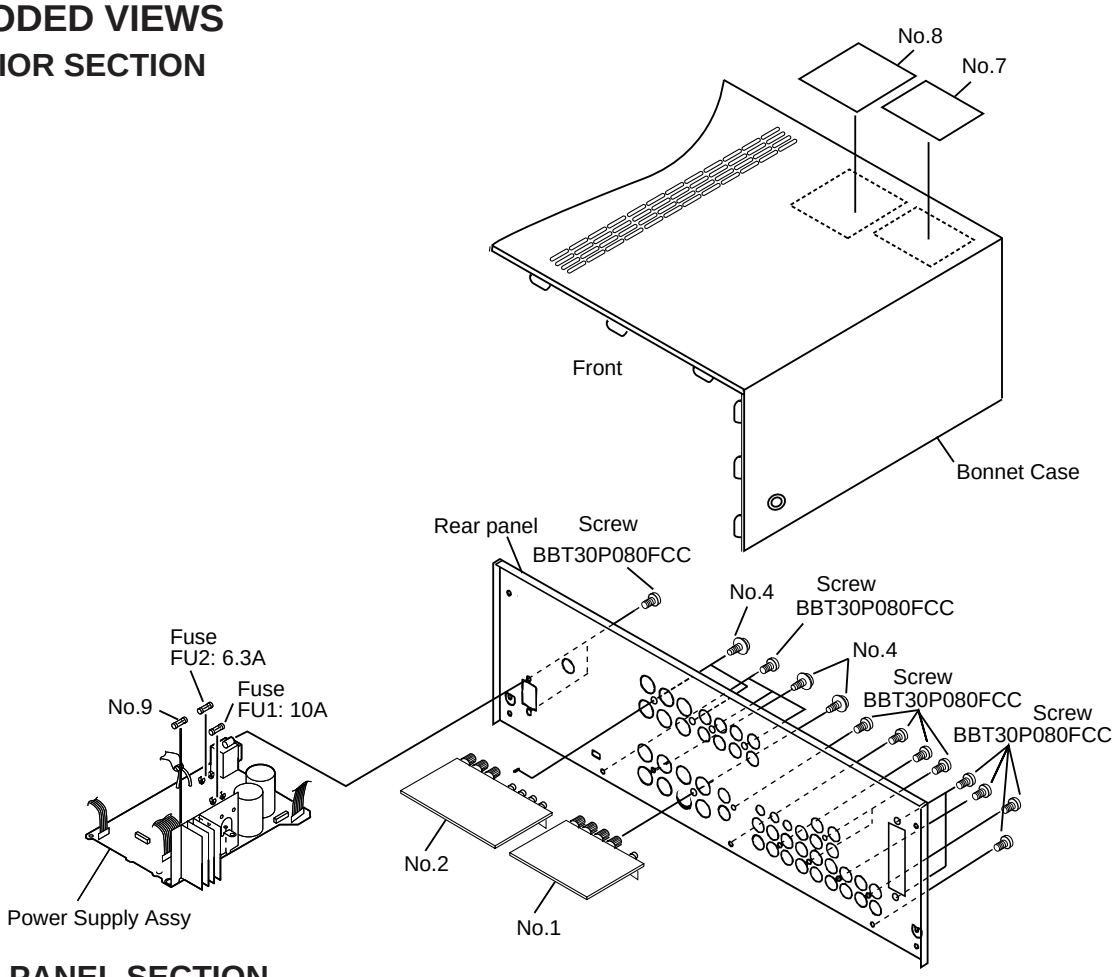
Ref. No.	Mark	Symbol and Description	Part No.		Remarks
			VSX-D507S	VSX-11	
			KUXJI	KUXJI/CA	
		ASSEMBLIES			
	NSP	MOTHER Assy	AWK7432	AWK7437	
P5-1		├ INPUT Assy	AWX7102	AWX7106	
P5-2		├ R/C SP&6CH Assy	AWX7092	Not used	
P5-3		├ REG Assy	AWX7093	AWX7203	
		└ HP&FAV Assy	AWX7103	Not used	
	NSP	FRONT & PS Assy	AWK7433	AWK7438	
P5-6		├ POWER SUPPLY Assy	AWX7096	AWX7204	
P5-7		├ VIDEO Assy	AWX7105	AWX7110	
P6-2		├ FL&UCOM Assy	AWX7104	AWX7107	
P6-4		└ VOLUME Assy	AWX7097	AWX7205	
	NSP	ELITE ASSY	Not used	AWK7439	
		├ LARGE FSP Assy	Not used	AWX7108	No.1
		├ LAGE RCSP Assy	Not used	AWX7109	No.2
		└ HP ASSY	Not used	AWX7159	No.3
		PACKING			
P3-3		Operating Instructions (English)	ARB7134	ARB7135	
P3-4	NSP	Warranty Card	ARY1051	ARY7007	
P3-11		Packing Case	AHD7554	AHD7556	
		EXTERIOR SECTION			
P5-11	⚠	Power Transformer T1 (AC120V)	ATS7207	ATS7208	
P5-17		Flat Flexible Cable (12P)	ADD7090	ADD7091	
P5-19		Rear Panel	ANC7624	ANC7626	
P5-26		Foot Assy (Rear Side)	REC1263	Not used	
P5-30		Screw	ABA7043	ABA1022	
		Screw	Not used	ABA1193	No.4
		Screw	Not used	ABA7023	No.5
		Screw	Not used	ABA7035	No.6
		FCC Label	Not used	VRW1725	No.7
		DOC Label	Not used	VRW1726	No.8
	⚠	Fuse (FU4: 10A)	Not used	REK1087	No.9
		FRONT PANEL SECTION			
P6-16		Sub Panel	AAP7041	AAP7039	
P6-17		Front Panel	AMB7486	AMB7487	
P6-24		Housing 5P Shield	ADX7238	Not used	
		Plate Spring	Not used	ABK7011	No.10
		Door Hinge L	Not used	AMR7171	No.11
		Door Hinge R	Not used	AMR7172	No.12
		Door Panel	Not used	AAK7561	No.13
		PVC Panel	Not used	AAK7534	No.14
		Dumper Assy	Not used	AXA7046	No.15
		Door Plate	Not used	ANG7187	No.16
		Collar Spacer	Not used	AEC7146	No.17

Note: • The numbers in the remarks column correspond to the numbers on the exploded diagram, Refer to "EXPLODED VIEWS".

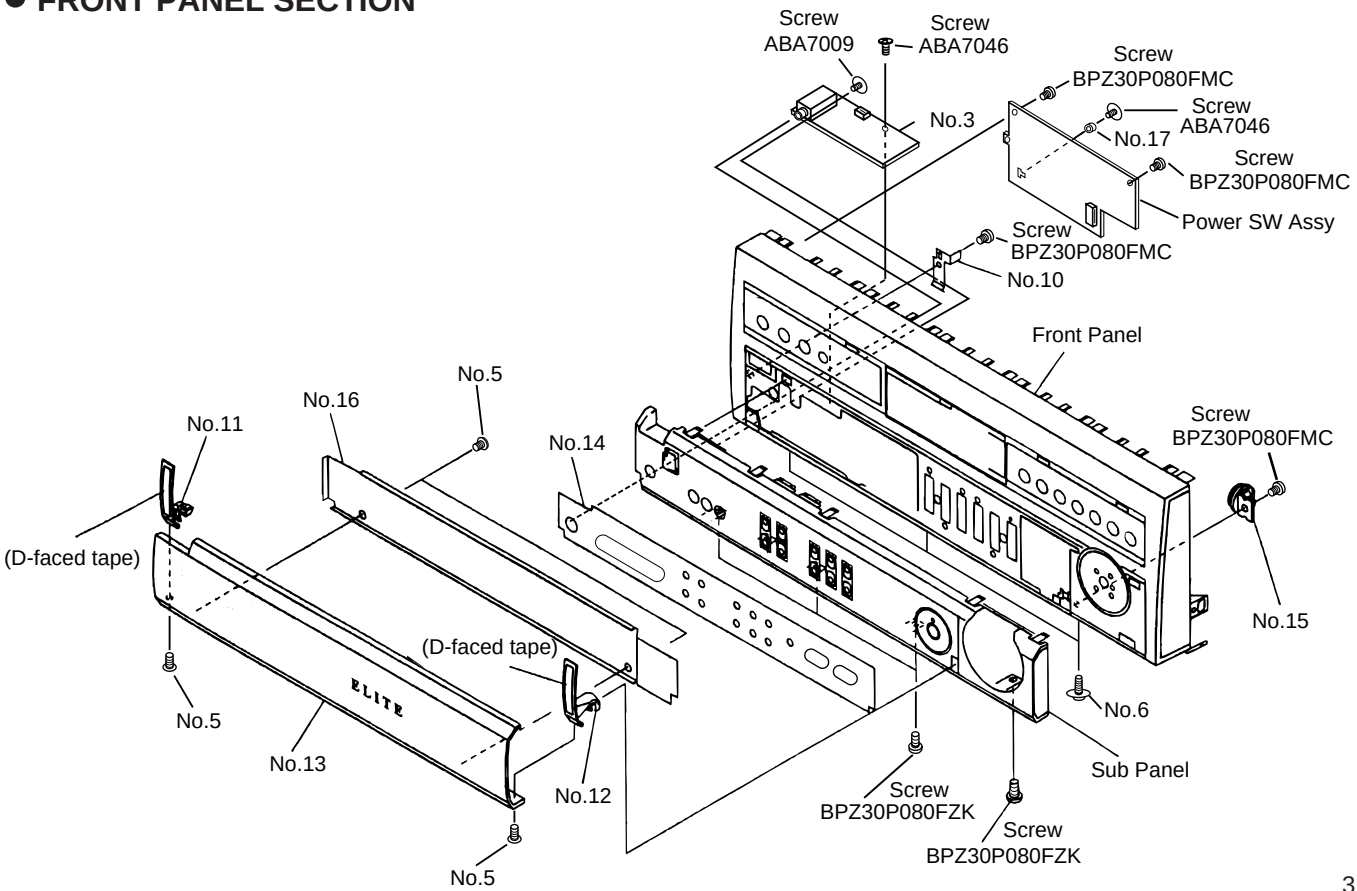
• For ASSEMBLIES, Refer to " ■ CONTRAST OF PCB ASSEMBLES" and "2. SCHEMATIC AND PCB DIAGRAMS".

■ EXPLODED VIEWS

● EXTERIOR SECTION



● FRONT PANEL SECTION



■ CONTRAST OF PCB ASSEMBLIES

EF 1/2 EF 2/2 INPUT ASSY

AWX7106 and AWX7102 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7102	AWX7106	
	IC151, IC181, IC201, IC221	NJM4558D	UPC4570C	
	Q101, Q102	Not used	2SC2878	
	C151, C152	CEAT2R2M50	ACH7004 (2.2µF/50V)	
	C153, C154	CEAT221M16	ACH7096 (220µF/16V)	
	C155, C156, C260, C265, C269, C273	CEAT101M10	CEAT101M16	
	C181, C182, C189, C190	CEAT4R7M50	ACH7003 (4.7µF/50V)	
	C203, C361	CEAT221M10	ACH7096 (220µF/16V)	
	C211, C219	CEAT4R7M50	CEZA4R7M50	
	C272, C294	CCCSL221J50	CCCSL221K2H	
	C313, C314, C1313, C1314	CEAT1R0M50	CEAT1R0M2A	
	C323, C324, C1323, C1324, C1365	CEANP2R2M50	CEANP2R2M2A	
	R119, R120	Not used	RD1/4PU122J	
	R121, R122	Not used	RD1/4PU102J	
	R123, R124	Not used	RD1/4PU223J	
	R145, R146	RD1/4PU272J	RDR1/6PU272J	
	R147, R148	RD1/4PU182J	RDR1/6PU182J	
	CN108 PLUG 5P	KM250MA5	Not used	
	CN114 PIN JACK 4P	AKB7015	Not used	
	CN351 PIN JACK 6P	AKE7006	Not used	
NSP	J19 JUMPER WIRE	Not used	DYY03-125-2651	
NSP	J20 JUMPER WIRE	Not used	DYY08-100-2651	
	114 PIN JACK 6P	Not used	AKB7012	
	353 CONNECTOR ASSY 3P	Not used	51052-0300	
	354 CONNECTOR ASSY 8P	Not used	51052-0800	

GF FL&UCOM ASSY

AWX7107 and AWX7104 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7104	AWX7107	
	D621	1SS254	Not used	
	D622	Not used	1SS254	
	R654	RD1/4PU103J	Not used	

B REG ASSY

AWX7203 and AWX7093 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7093	AWX7203	
	C503, C504	CEAT101M16	CEBA101M16	
	C506	CEAT101M10	CEAT101M16	

IF POWER SUPPLY ASSY

AWX7204 and AWX7096 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7096	AWX7204	
	C707, C708	CEAT472M25	ACH7095 (4700µF/25V)	
	C715, C716	ACH7018 (8200µF/71V)	ACH7094 (10000µF/71V)	
	H707, H708 (FUSE CLIP)	Not used	AKR1004	

LF VIDEO ASSY

AWX7110 and AWX7105 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7105	AWX7110	
	Q933	Not used	2SA933S	
	D934- D938	Not used	1SS254	
	C932	Not used	CKCYB682K50	
	R936, R937	Not used	RD1/4PU224J	
	R938, R939, R941	Not used	RD1/4PU102J	
	R940	Not used	RD1/4PU103J	
	933 MINI JACK	Not used	AKN7002	

M VOLUME ASSY

AWX7205 and AWX7097 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7097	AWX7205	
	Q806, Q808	2SC2603	2SC5389	
	Q805, Q807	2SA1115	2SA1993	
	C805, C806	CEAT4R7M50	ACH7003 (4.7µF/50V)	
	C809, C810	CEAT4R7M50	CEZA4R7M50	
	C813, C814, C817, C818	CEAT4R7M50	ACH7003 (4.7µF/50V)	
	C822, C826	CEAT4R7M50	CEZA4R7M50	

■ PCB PARTS LIST

Mark	No.	Description	Part No.

N LARGE FSP ASSY

SEMICONDUCTORS

	Q1001, Q1002	2SC2878

RESISTORS

	All Resistors	RD1/4PU□□□J

OTHERS

	CN1001 SPEAKER TERMINAL 8P	AKE7036
	CN1002 JUMPER CONNECTOR 8P	KPD8
	CN1003 JUMPER CONNECTOR 3P	KPD3
	CN1004 PINJACK 2P	AKB7008

P LARGE RCSP ASSY

SEMICONDUCTORS

	IC1071, IC1072	NJM4558D
	Q1051	KRA101M
	Q1052	2SC1740S
	Q1055	2SC2878
	D1051, D1052	1SS254

COILS AND FILTERS

	L1051, L1053, L1054 (0.7µH)	ATH1004

SWITCHES AND RELAYS

	RY1051, RY1052	ASR7001

CAPACITORS

	C1071- C1074	CEAT2R2M50
	C1051, C1053, C1054	CFTLA104J50
	C1055- C1057, C1081, C1082	CGCYX473M16
	C1075- C1078	CKPUYY103M16

RESISTORS

⚠	R1051, R1053, R1054	RD1/4PMF100J
⚠	R1055, R1057, R1058	RS1LMF4R7J
	Other Resistors	RD1/4PU□□□J

OTHERS

	1051 CABLE HOLDER 3P	51052-0300
	CN1051 FFC CONNCTOR 12P	XKP3012
	CN1052 SPEAKER TERMINAL 6P	AKE7037
	CN1053, CN1054 PINJACK 4P	AKB7087
	CN1055 JUMPER CONNECTOR 6P	KPD6
	J17 JUMPER WIRE	DYY03-200-2651

O HP ASSY

SEMICONDUCTORS

	Q1101, Q1102	2SC2878

CAPACITORS

	C1101	CGCYX104M16

RESISTORS

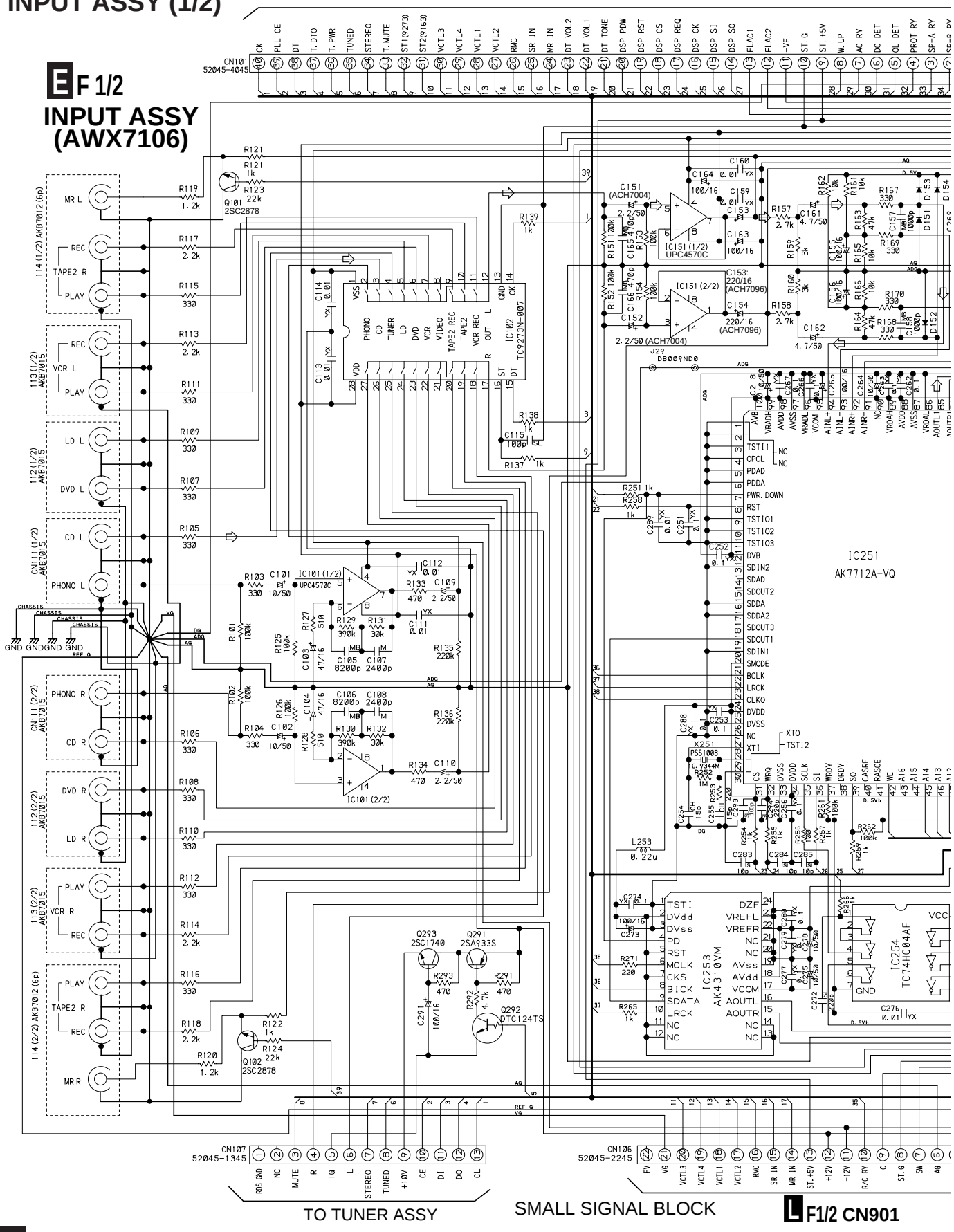
	R1103, R1104	RD1/4PU103J
	Other Resistors	RD1/2PM□□□J

OTHERS

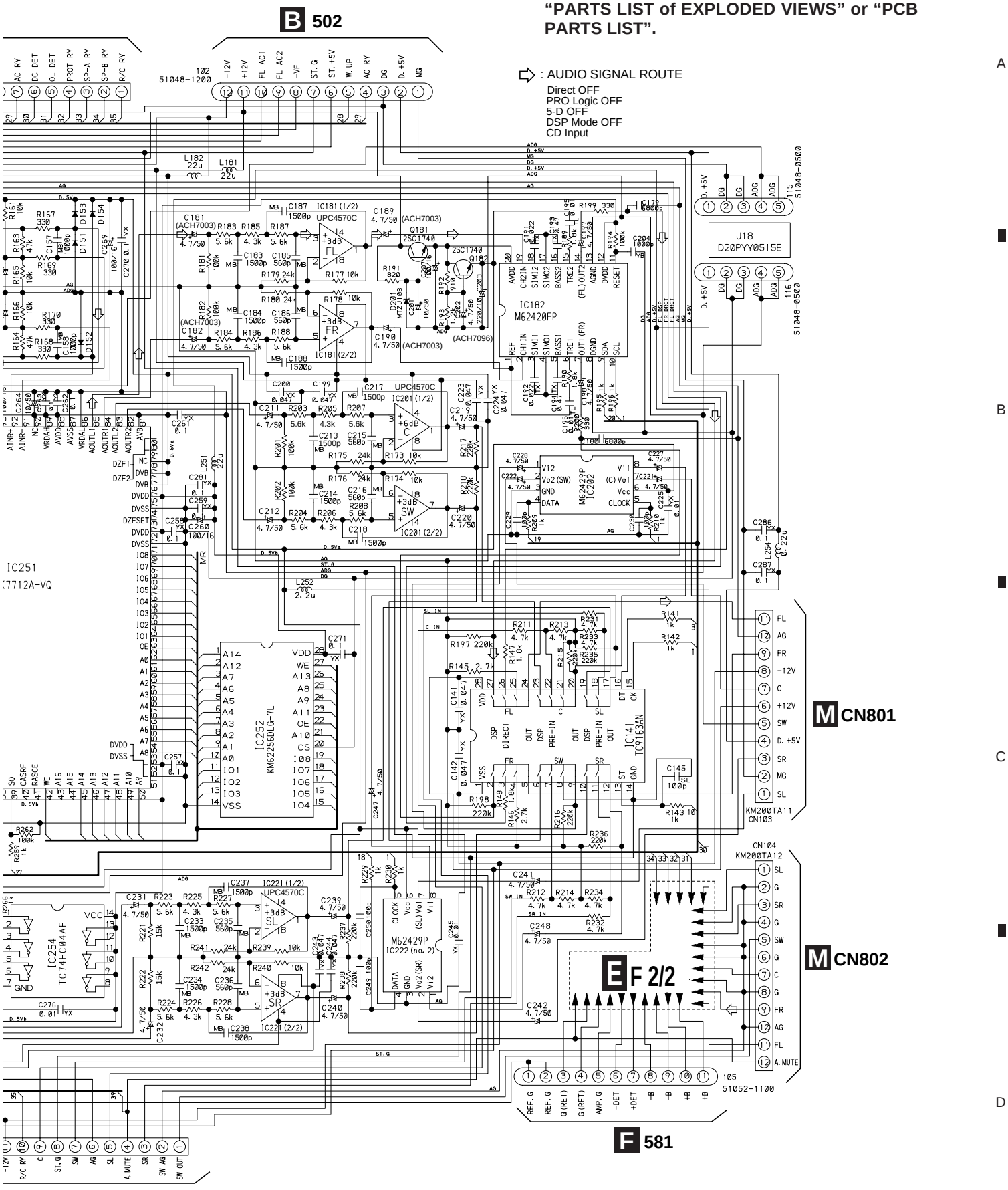
	1102 GROUND PLATE	VNF-091
	CN1101 CONNECTOR 4P	52045-0445
	JA1101 HEADPHONE JACK	RKN1002

2. SCHEMATIC DIAGRAM

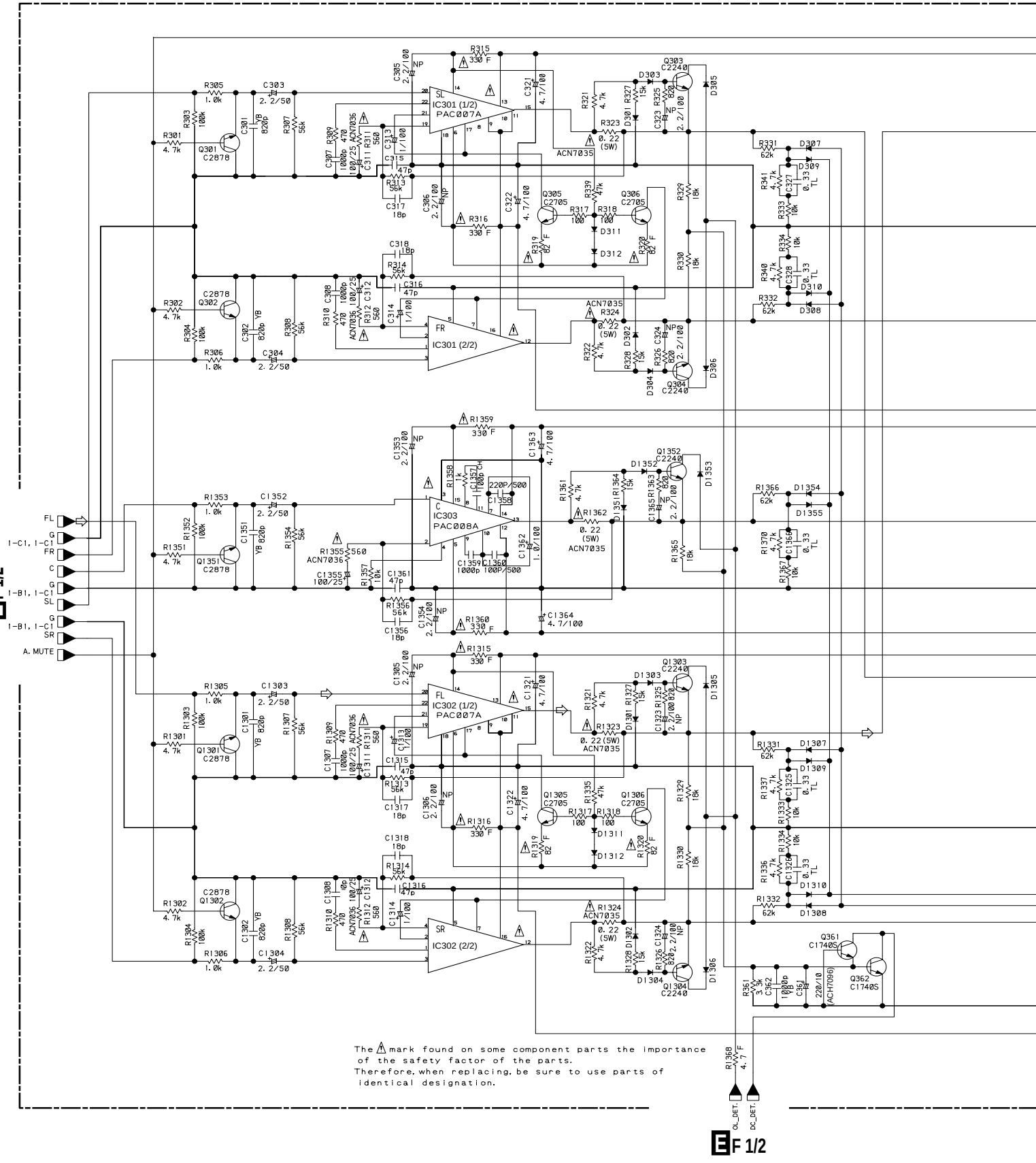
2.1 INPUT ASSY (1/2)

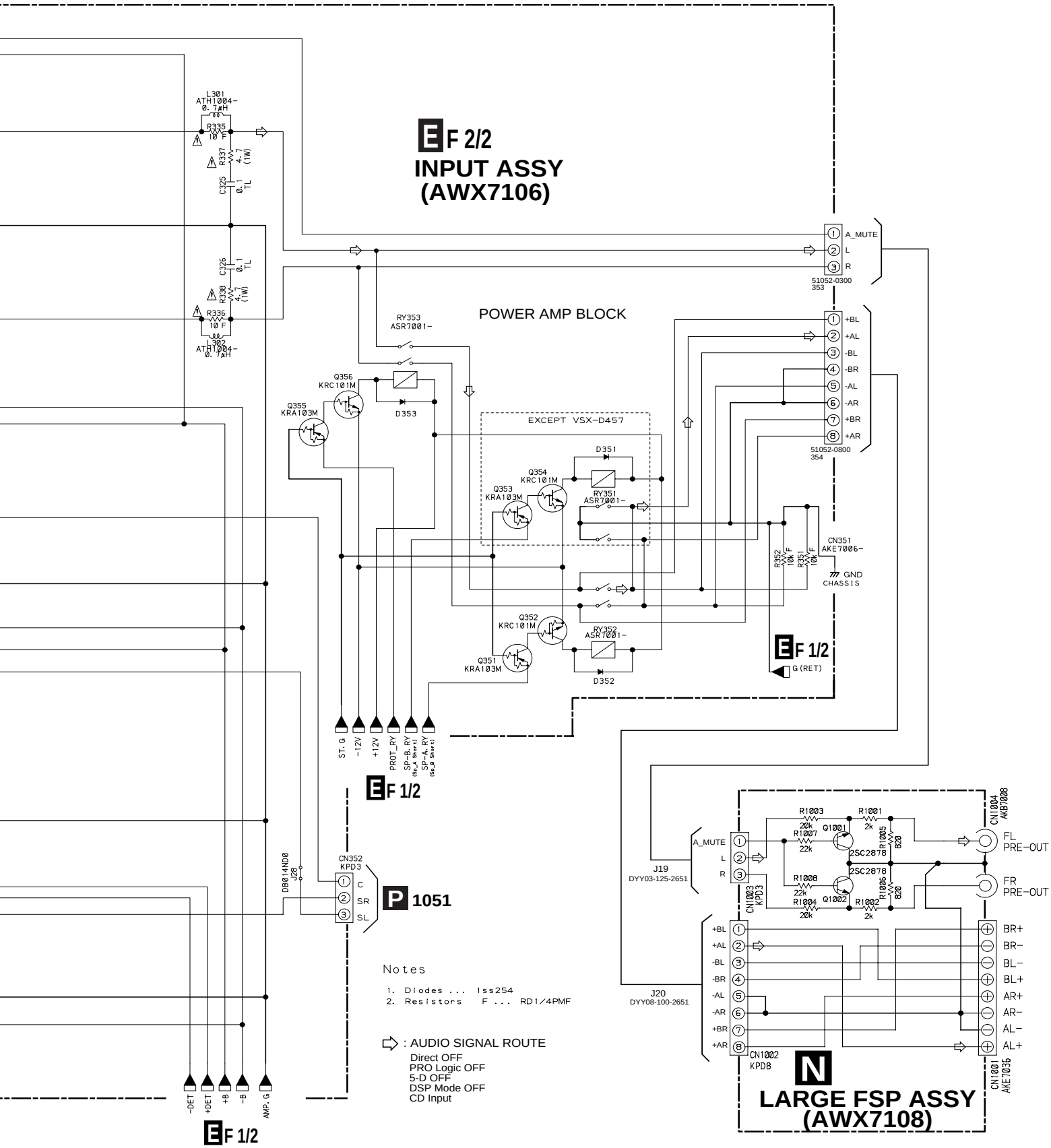


NOTE: When ordering service parts, be sure to refer to "PARTS LIST of EXPLODED VIEWS" or "PCB PARTS LIST".

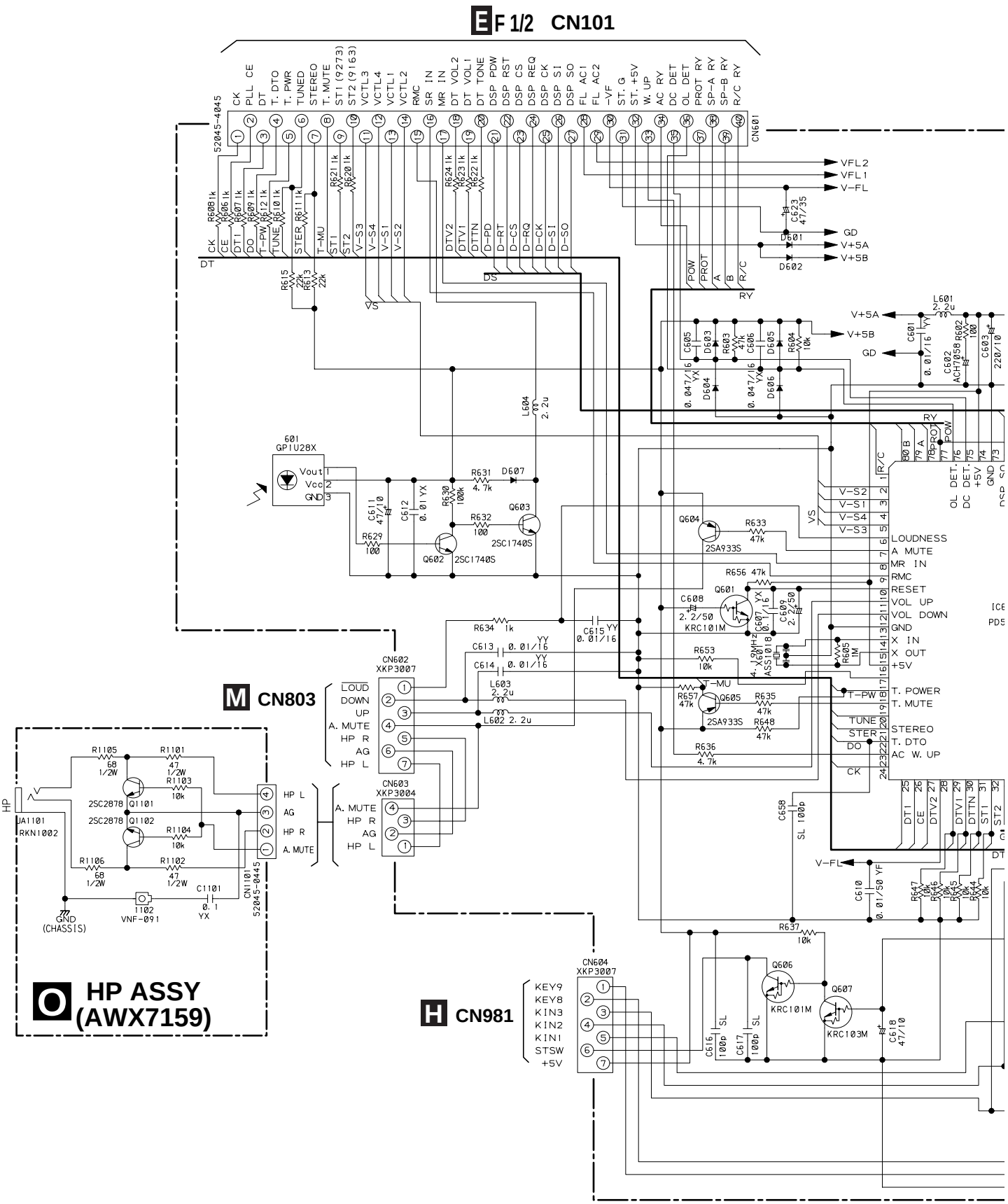


2.2 INPUT ASSY (2/2)

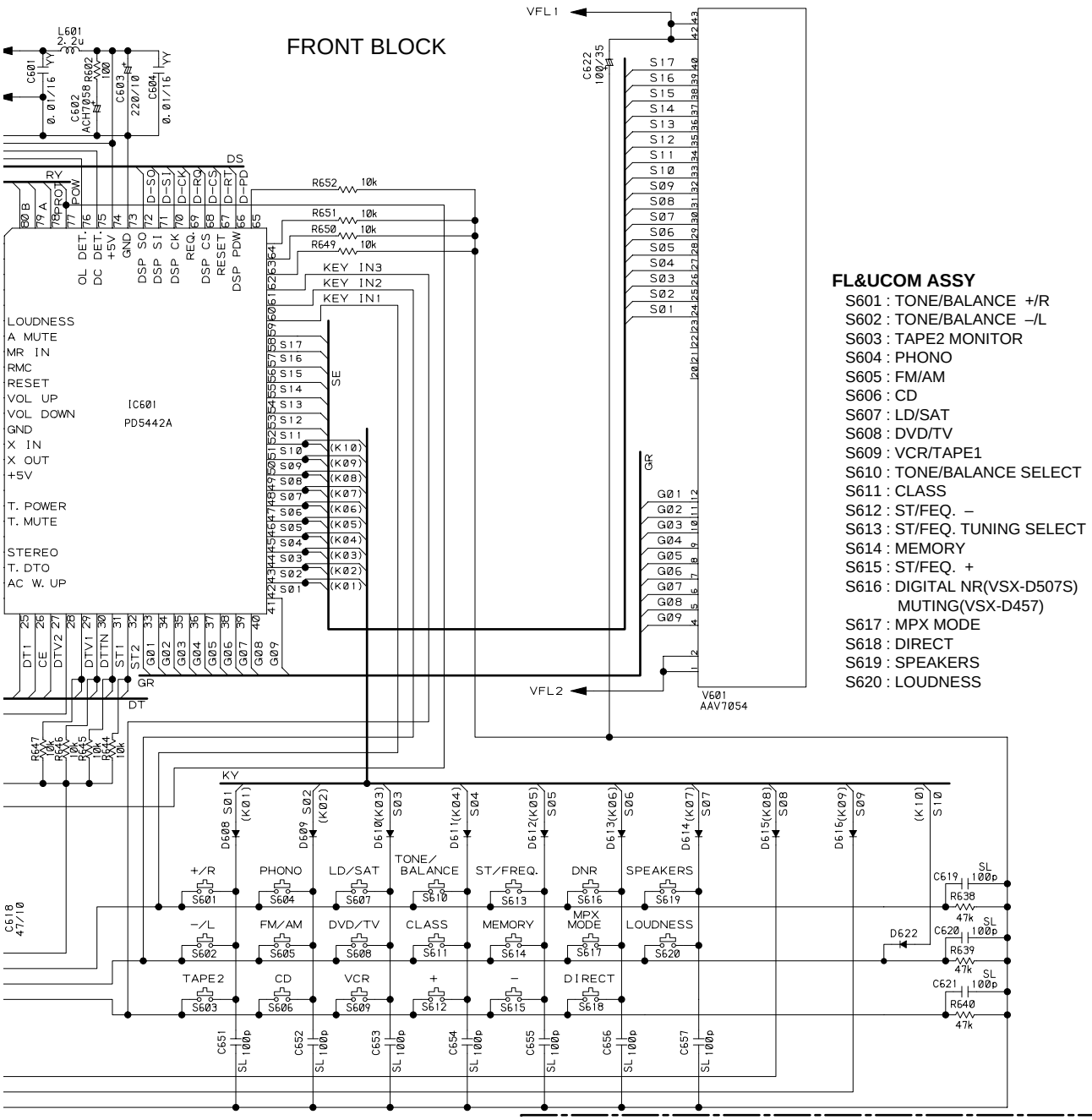



EF 2/2
INPUT ASSY
(AWX7106)
POWER AMP BLOCK
EXCEPT VSX-D457
EF 1/2
EF 1/2
EF 1/2
P 1051
N
LARGE FSP ASSY
(AWX7108)
Notes
1. Diodes ... 1ss254
2. Resistors F ... RD1/4PMF
: AUDIO SIGNAL ROUTE
Direct OFF
PRO Logic OFF
5-D OFF
DSP Mode OFF
CD Input

2.3 FL&UCOM ASSY



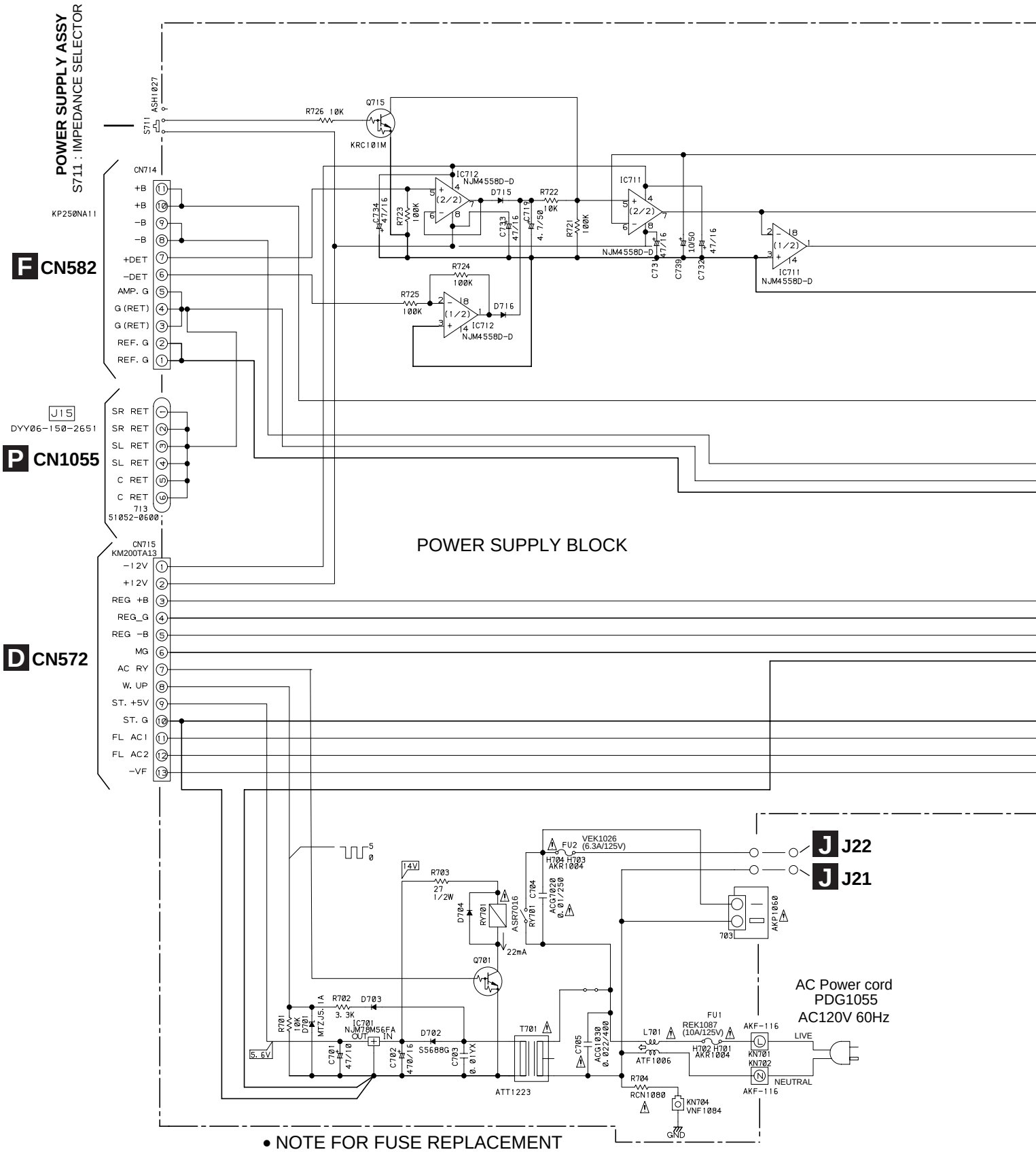
GF FL&UCOM ASSY (AWX7107)



FL&UCOM ASSY

- S601 : TONE/BALANCE +/R
- S602 : TONE/BALANCE –/L
- S603 : TAPE2 MONITOR
- S604 : PHONO
- S605 : FM/AM
- S606 : CD
- S607 : LD/SAT
- S608 : DVD/TV
- S609 : VCR/TAPE1
- S610 : TONE/BALANCE SELECT
- S611 : CLASS
- S612 : ST/FEQ. –
- S613 : ST/FEQ. TUNING SELECT
- S614 : MEMORY
- S615 : ST/FEQ. +
- S616 : DIGITAL NR(VSX-D507S)
  MUTING(VSX-D457)
- S617 : MPX MODE
- S618 : DIRECT
- S619 : SPEAKERS
- S620 : LOUDNESS

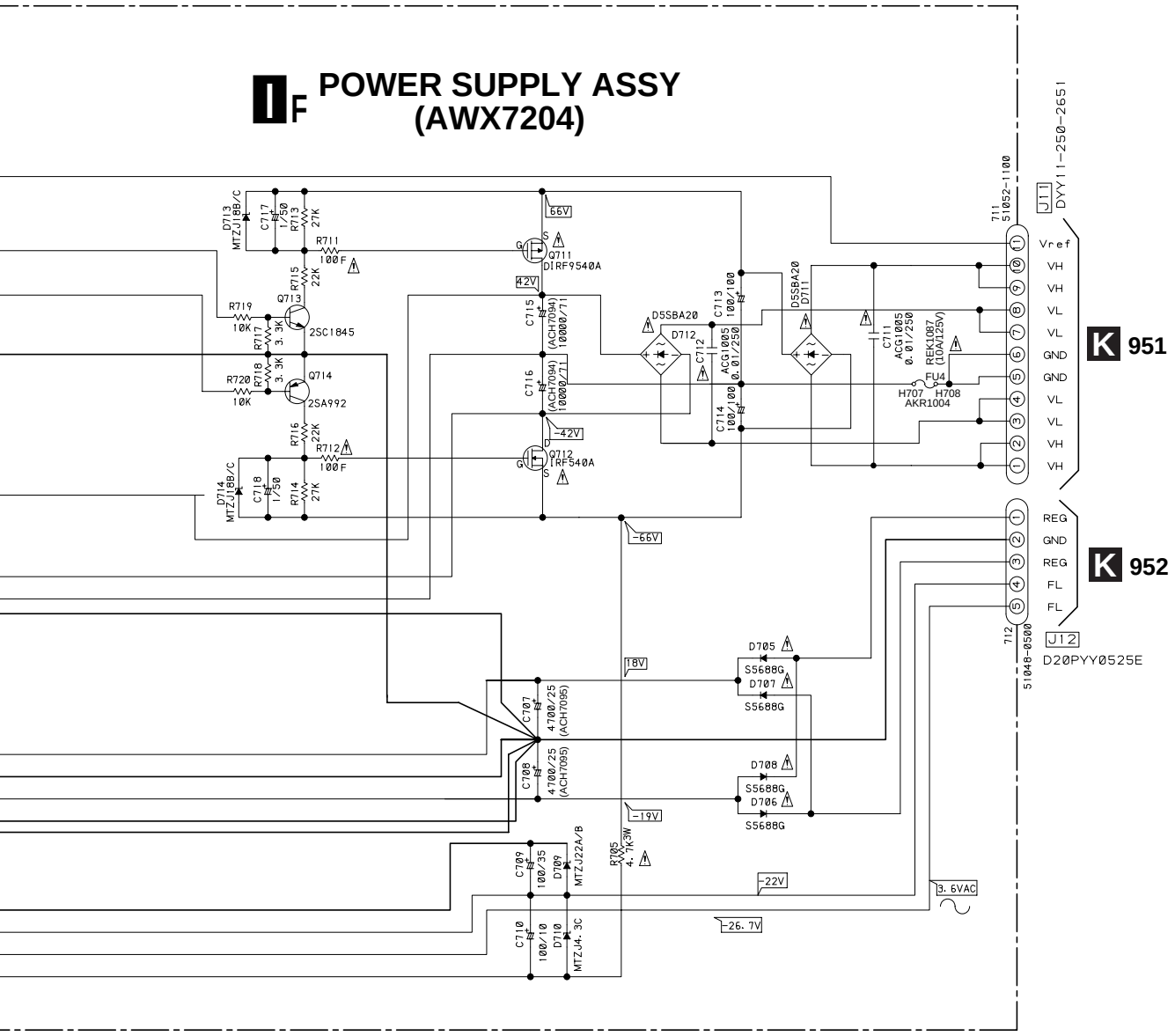
2.4 POWER SUPPLY ASSY



• NOTE FOR FUSE REPLACEMENT

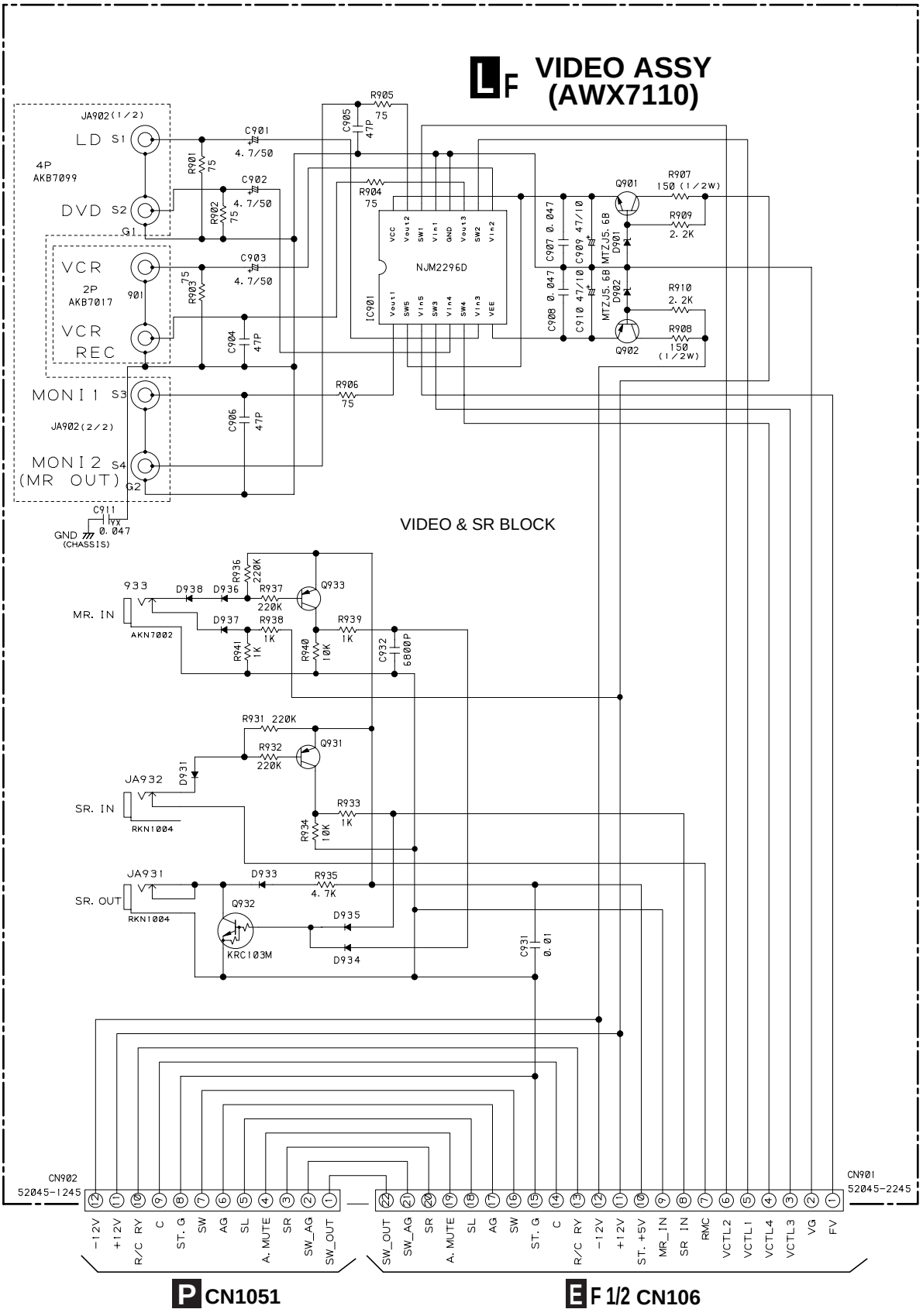
CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE AND RATINGS ONLY.

POWER SUPPLY ASSY (AWX7204)

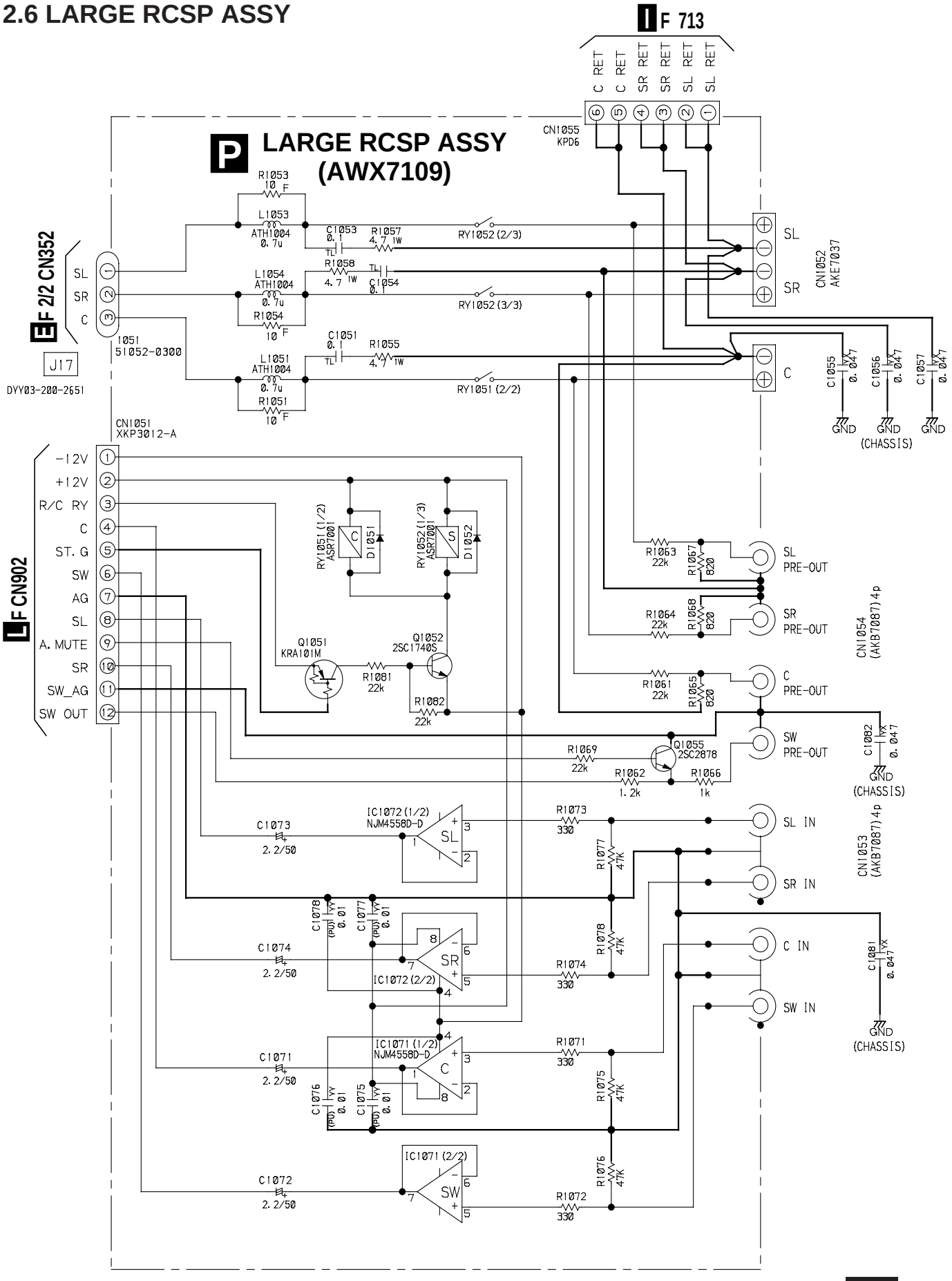


The ⚠ mark found on some component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.

2.5 VIDEO ASSY



2.6 LARGE RCSP ASSY



3. PCB CONNECTION DIAGRAM

3.1 LAEGE FSP, HP and LARGE RCSP ASSY

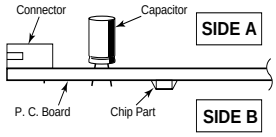
NOTE FOR PCB DIAGRAMS:

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

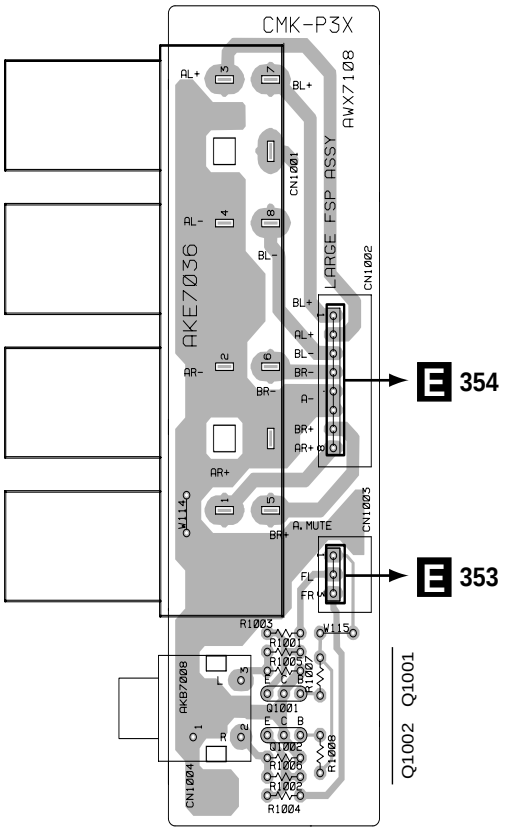
Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
B C E	B C E B C E	Transistor
B C E	B C E B C E	Transistor with resistor
D G S	D G S D G S	Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destination. For further information for respective destinations, be sure to check with the schematic diagram.

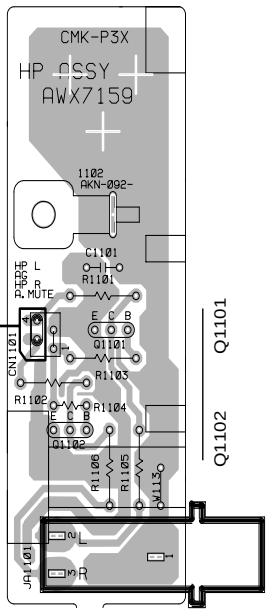
4. Viewpoint of PCB diagrams



N LARGE FSP ASSY

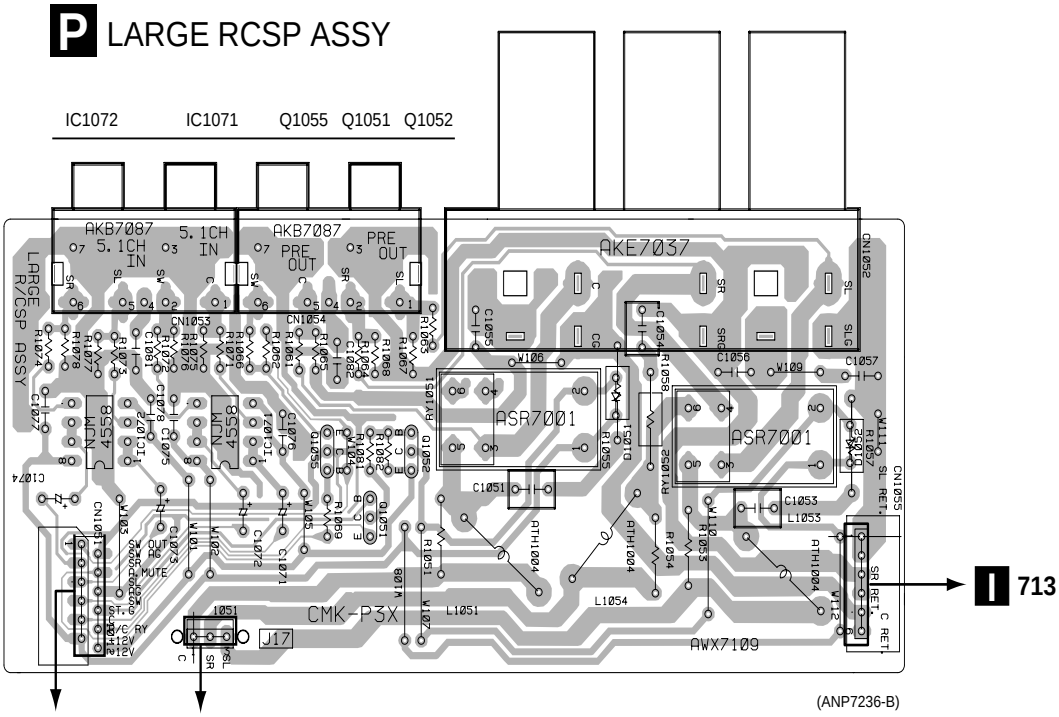


O HP ASSY



P LARGE RCSP ASSY

SIDE A



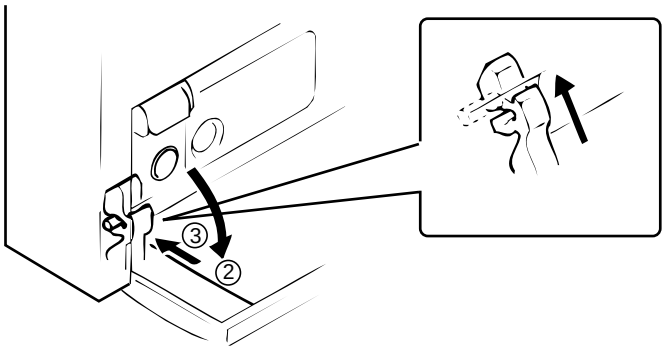
(ANP7236-B)

N O P

4. GENERAL INFORMATION

4.1 ATTACHING THE DOOR PANEL

①Slide the Door Panel slantways.
②Rotate it so that it is horizontal.
③Push it straight in.



④ Move it downwards a little,and push in with bending it.